10

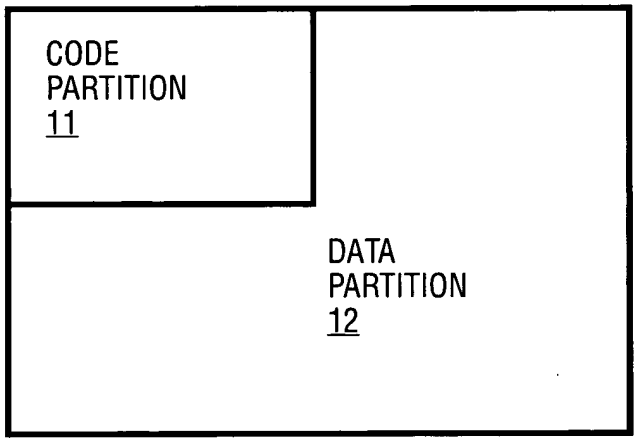

FIG. 1

Document: 2004/0064808 A1

T02T90*h0h08860

20

PREEMPTING 22 / PREEMPTED 21	RECLAIM ERASE	RECLAIM WRITE	BACKGROUND WRITE	RECLAIM LOAD	BACKGROUND READ	FOREGROUND READ
RECLAIM ERASE	T	T	V	T	V	V
RECLAIM WRITE	T	S,T	S	T	V	V
BACKGROUND WRITE	P	S,P	S,T	P	T	V
RECLAIM READ	T	T	V	T	V	V
BACKGROUND READ	P	P	T	P	T	V
FOREGROUND READ	P	P	P	P	P	S

FIG. 2

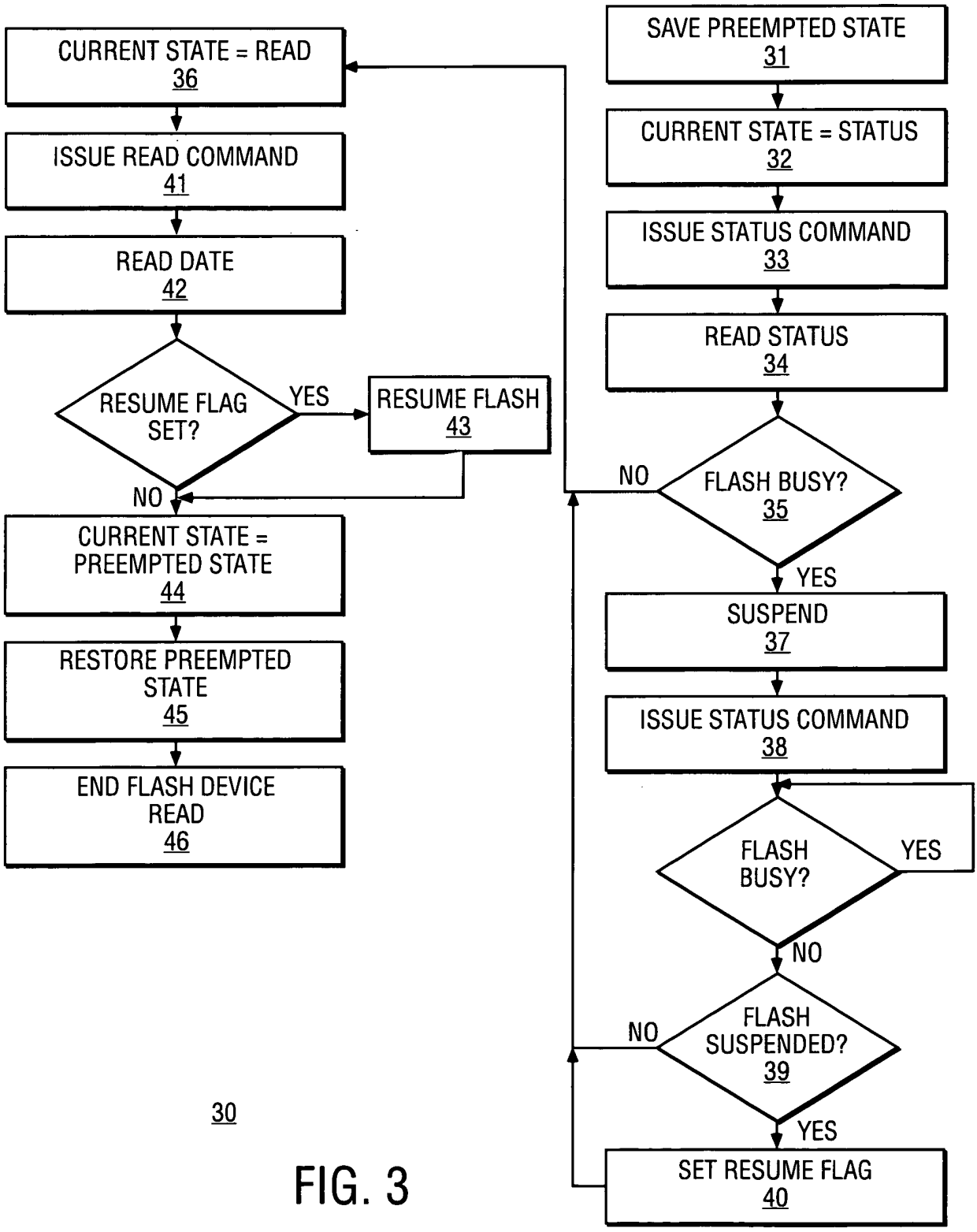
CURRENT STATE = READ
36
ISSUE READ COMMAND
41
READ DATE
42
RESUME FLAG SET?
YES
RESUME FLASH
43
NO
CURRENT STATE = PREEMPTED STATE
44
RESTORE PREEMPTED STATE
45
END FLASH DEVICE READ
46
SAVE PREEMPTED STATE
31
CURRENT STATE = STATUS
32
ISSUE STATUS COMMAND
33
READ STATUS
34
NO
FLASH BUSY?
35
YES
SUSPEND
37
ISSUE STATUS COMMAND
38
FLASH BUSY?
YES
NO
NO
FLASH SUSPENDED?
39
YES
SET RESUME FLAG
40
30

FIG. 3

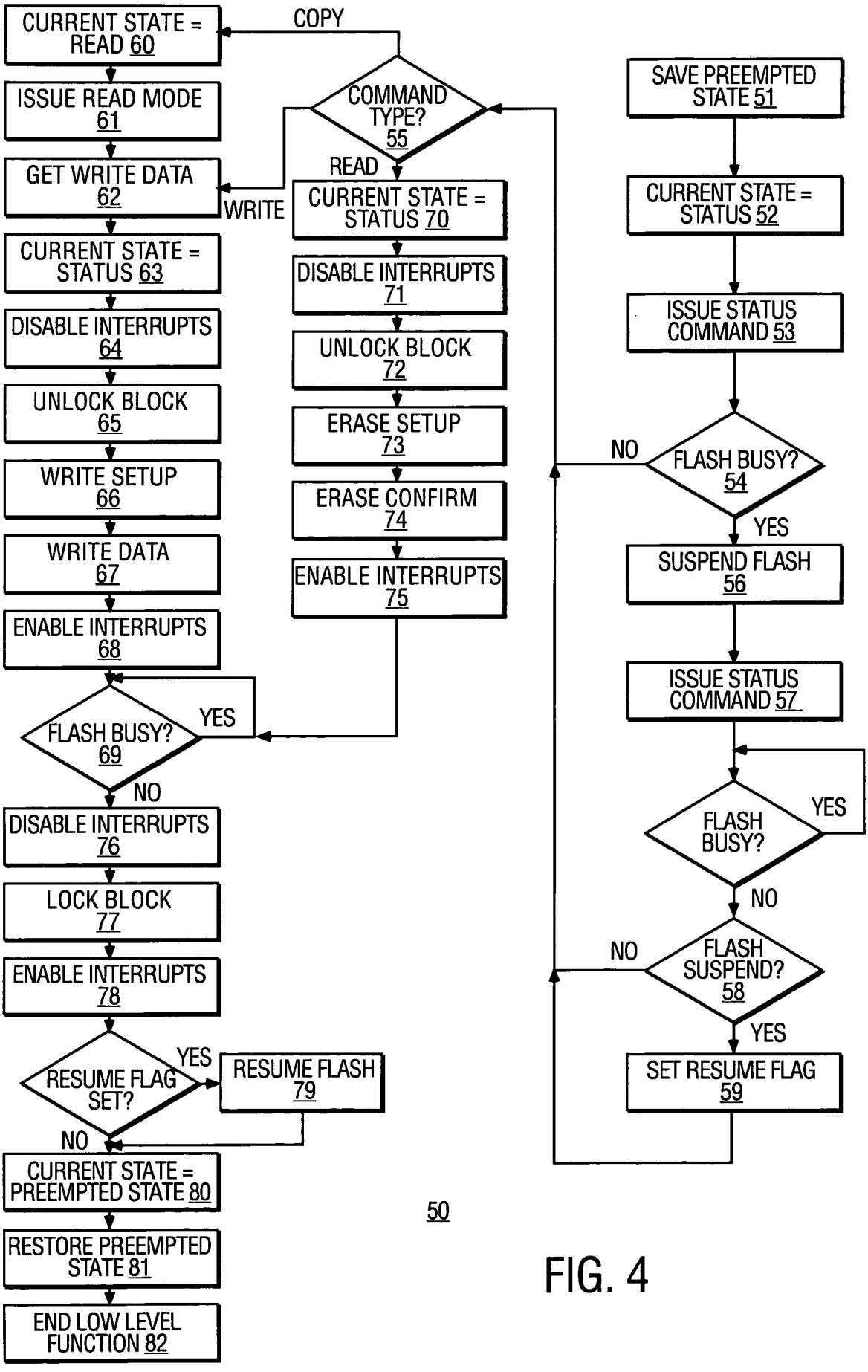
CURRENT STATE = READ 60
ISSUE READ MODE 61
GET WRITE DATA 62
CURRENT STATE = STATUS 63
DISABLE INTERRUPTS 64
UNLOCK BLOCK 65
WRITE SETUP 66
WRITE DATA 67
ENABLE INTERRUPTS 68
FLASH BUSY? 69
YES
NO
DISABLE INTERRUPTS 76
LOCK BLOCK 77
ENABLE INTERRUPTS 78
RESUME FLAG SET?
YES
RESUME FLASH 79
NO
CURRENT STATE = PREEMPTED STATE 80
RESTORE PREEMPTED STATE 81
END LOW LEVEL FUNCTION 82
COPY
COMMAND TYPE? 55
READ
WRITE
CURRENT STATE = STATUS 70
DISABLE INTERRUPTS 71
UNLOCK BLOCK 72
ERASE SETUP 73
ERASE CONFIRM 74
ENABLE INTERRUPTS 75
SAVE PREEMPTED STATE 51
CURRENT STATE = STATUS 52
ISSUE STATUS COMMAND 53
NO
FLASH BUSY? 54
YES
SUSPEND FLASH 56
ISSUE STATUS COMMAND 57
FLASH BUSY?
YES
NO
NO
FLASH SUSPEND? 58
YES
SET RESUME FLAG 59
50

FIG. 4